



**Vermilion Bay Water Treatment & Distribution Systems**

**Problem:**                    **Contaminated Raw Water Source  
(Physical, Chemical, or  
Radiological Parameter)**

**Contact Info:**            Overall Responsible Operator (ORO)  
Operator-In-Charge (OIC)  
Ministry of the Environment - Abatement Officer  
Ministry of the Environment - Drinking Water Inspector  
Municipality of Machin, Clerk Treasurer

**Procedures:**

1. Raw water is considered contaminated, where chemical and radiological standards are concerned, if the contaminant level in raw water exceeds the Maximum Acceptable Concentration (MAC) allowed in treated water and distribution samples as determined by O. Reg. 169/03. In the event of chemical/radiological contamination, it is unlikely that the treatment process will be able to reduce chemical/radiological contaminants to acceptable levels prior to distribution to consumers. Raw water is considered contaminated, where physical standards are concerned, if the contaminant level in raw water is sufficient to cause loss of process control.
2. In the event of a major spill or contamination event, immediately turn off and lock-out the low lift (raw water) pumps in the treatment plant.
3. Contact the Operations Manager, ORO and OIC. These people will assist you in determining the severity of contamination and whether or not the treatment facility is capable of removing enough of the contaminant to provide the community with safe drinking water.
4. Collect raw water samples and send to an accredited laboratory for analysis.
5. Collect treated and distribution water samples and send to an accredited laboratory for analysis.

6. Notify the Ministry of the Environment Abatement Officer and, if applicable, assist him/her in determining the cause of contamination.
7. Notify the Ministry of the Environment Drinking Water Inspector if any significant deterioration in drinking water quality would result from resuming treatment plant production. He/she must give approval before resuming plant production and will likely determine the frequency at which samples are to be collected for monitoring purposes. He/she will also inform you whether or not the Health Officer (MOH) should be notified.
8. If contaminant levels in any treated or distribution samples exceed the Maximum Acceptable Concentration (MAC) as determined by provincial regulations (O. Reg. 169/03), refer to contingency for Adverse Water Samples (chemical/radiological parameter).
9. Notify the Owner and ensure that the Owner is kept up-to-date as events progress.
10. If the community's water supply is expected to be unsafe for human consumption, assist Municipal officials in establishing locations where local residents can obtain safe drinking water from.